

LAR-IAC for Planning

Nick Franchino, GIS Manager

Los Angeles County Dept. of Regional Planning

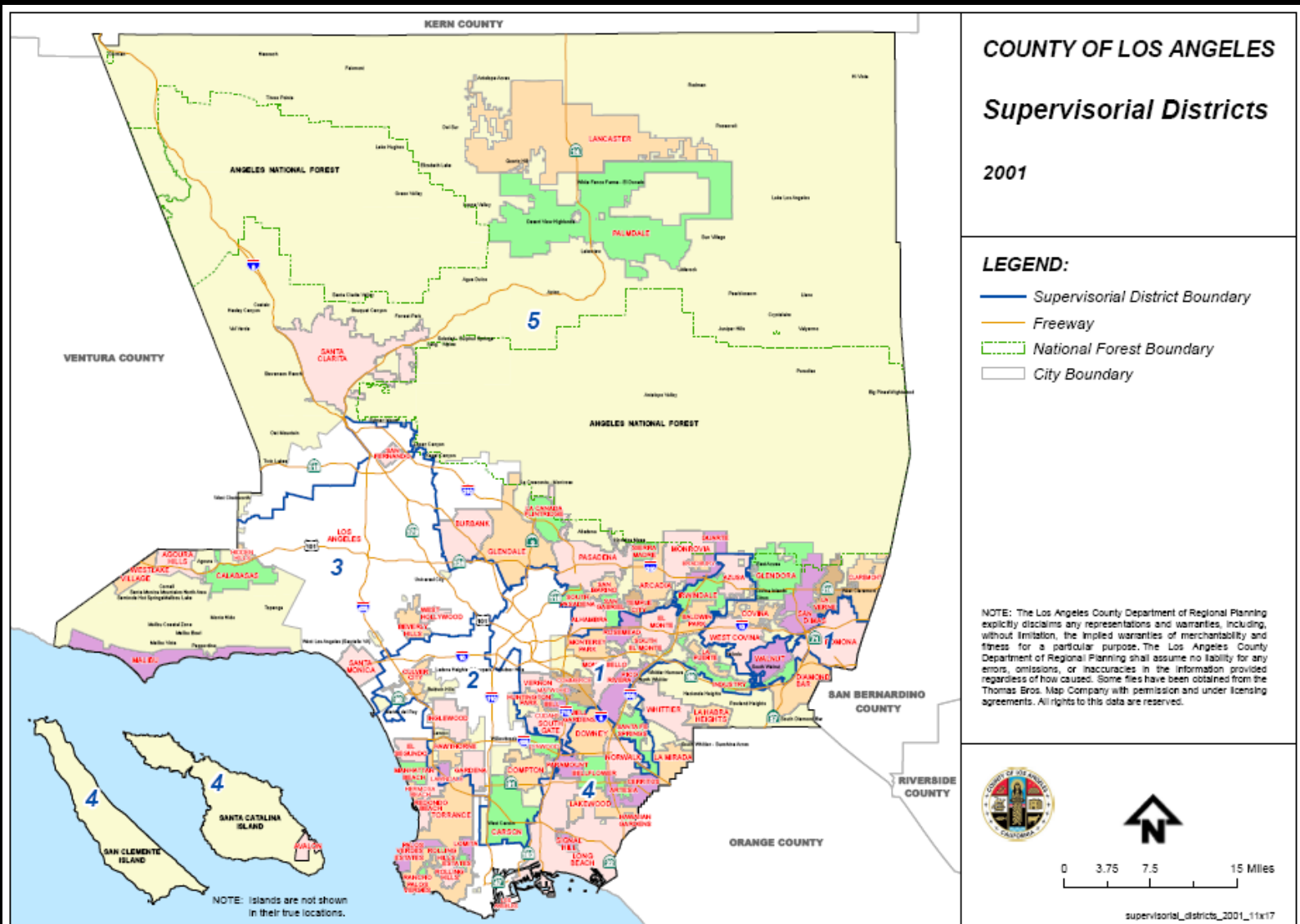
September 12, 2013



Department History

- Planning department for the unincorporated areas of Los Angeles County
- Staff to the Los Angeles County Regional Planning Commission since 1922 (oldest County planning body in the United States)
- Became an independent department in 1974
- Approximately 120 Planners (171 total dept staff)
- GIS – 7 full time staff, one aid, one unpaid intern and 2 volunteers

Unincorporated Area – In Yellow



Role of GIS in Planning

- GIS is vital as a decision support tool
- GIS provides for more in-depth analysis
- GIS allows for increased public participation
- GIS fosters a greater spatial awareness of our communities and environment

Imagery and the digital terrain datasets help with all of these things!

How We Use the Data

Advance Planning (long range)

Current Planning (cases and permitting)

Code Enforcement (inspections)

Support – Map creation, web sites, etc.

We started using in 1998

For Maps







LOS ANGELES COUNTY

**SENSITIVE LAND USES NEAR
MEDICAL MARIJUANA DISPENSARY**
15640 LEFFINGWELL ROAD
APN: 8040-019-011

SOUTH WHITTIER - SUNSHINE ACRES

LEGEND

-  MEDICAL MARIJUANA DISPENSARY
-  PARCELS
-  PARCELS WITH SENSITIVE LAND USES
-  CITY / UNINCORPORATED BOUNDARY

AERIAL IMAGERY (2008): LOS ANGELES REGION
IMAGERY ACQUISITION CONSORTIUM (LAR-IAC)

DETAILS REGARDING AFFECTED PARCELS:

GRAM CRACKER DAYCARE
15745 WILMAGLEN DRIVE
APN: 8030-001-050

MCDONALD'S RESTAURANT & PLAY PLACE
15710 LEFFINGWELL ROAD
APN: 8040-019-025

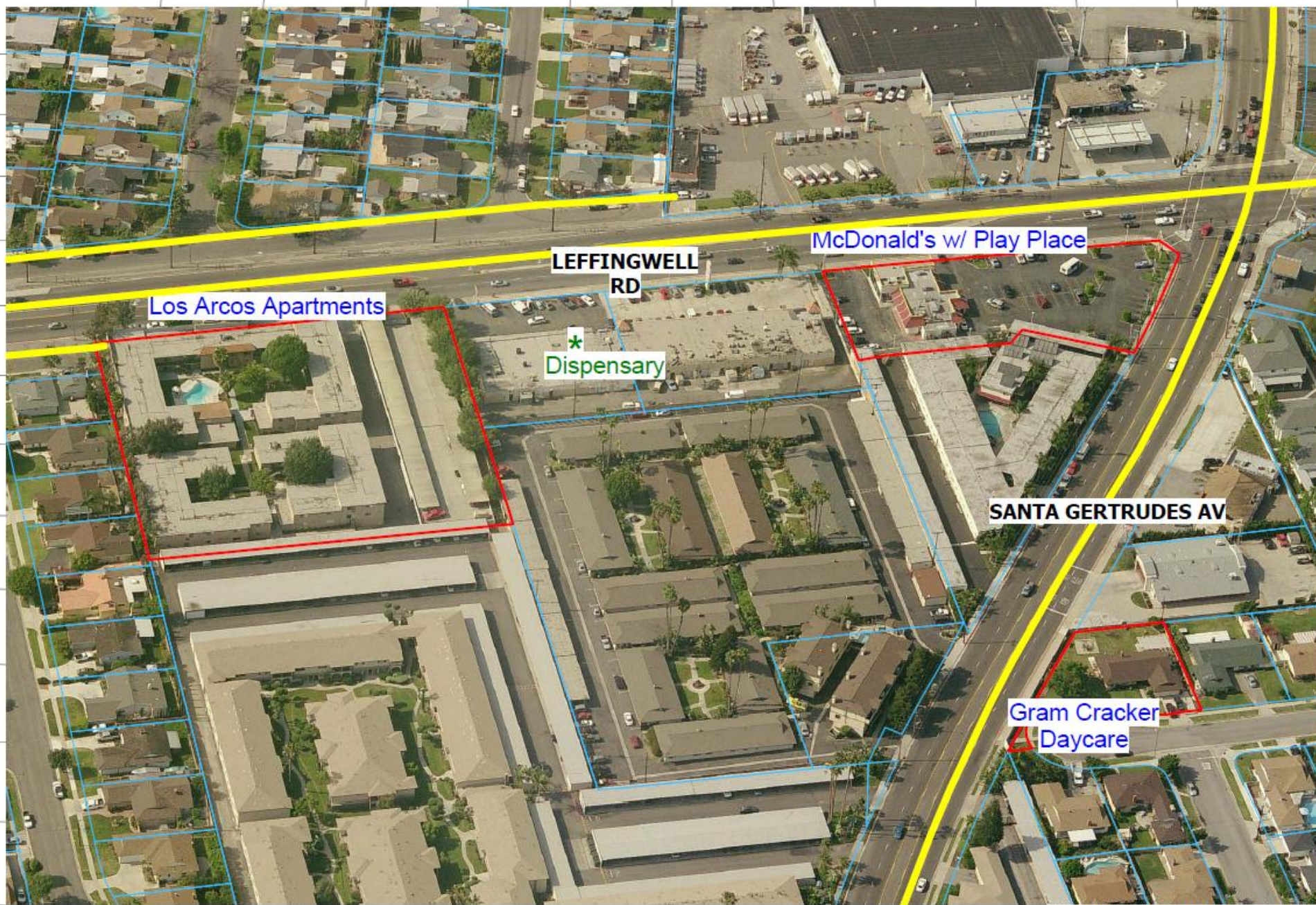
NOTE: DISTANCES SHOWN ON THE MAP ARE APPROXIMATE.



LOS ANGELES COUNTY
Department of Regional Planning
320 W. Temple St.
Los Angeles, CA 90012

0 100 200 300
FEET

Map prepared by DRP GIS Section / November 2009
Printed: _____





Los Angeles County

BALDWIN HILLS CSD

LEGEND:

- Streets
- Baldwin Hills CSD
- Incorporated Area
- Kenneth Hahn State Recreation Area
- Parcels
- Unincorporated Area

NOTE: Data not to be used for any other purpose. Property lines are for informational purposes only. Map is not to be used for any other purpose. © Copyright 2000, All Rights Reserved. All Rights Reserved. Property Rights Reserved. All Rights Reserved.



ORTHOGRAPHIC VIEW

R-1-7500

COUNTY OF LOS ANGELES

AERIAL IMAGERY EXHIBIT:

**4769 WEST AVENUE L-14
LANCASTER, CA 93536*
APN 3103-008-021**

**PROPERTY OWNER:
SEYMOUR, BRUCE G.**

* UNINCORPORATED ANTELOPE VALLEY,
QUARTZ HILL AREA

OBLIQUE VIEW LOOKING SOUTH



LOS ANGELES COUNTY

PROJECT AREA SLOPE

APNs: 4438005022 & 4438004012

LEGEND

— LARIAC Contour (10 foot interval)

□ Parcel

□ Project Area Boundary

SLOPE

0 - 24.99%

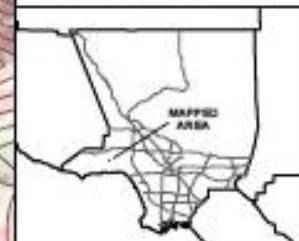
25% - 49.99%

50% and above

BOUNDARY COURTESY OF THE LOS ANGELES COUNTY
AGRICULTURE - FEBRUARY 2012

BOUNDARY AND CONTOUR COURTESY OF THE
LOS ANGELES COUNTY AND LARIAC PROJECT (2008)

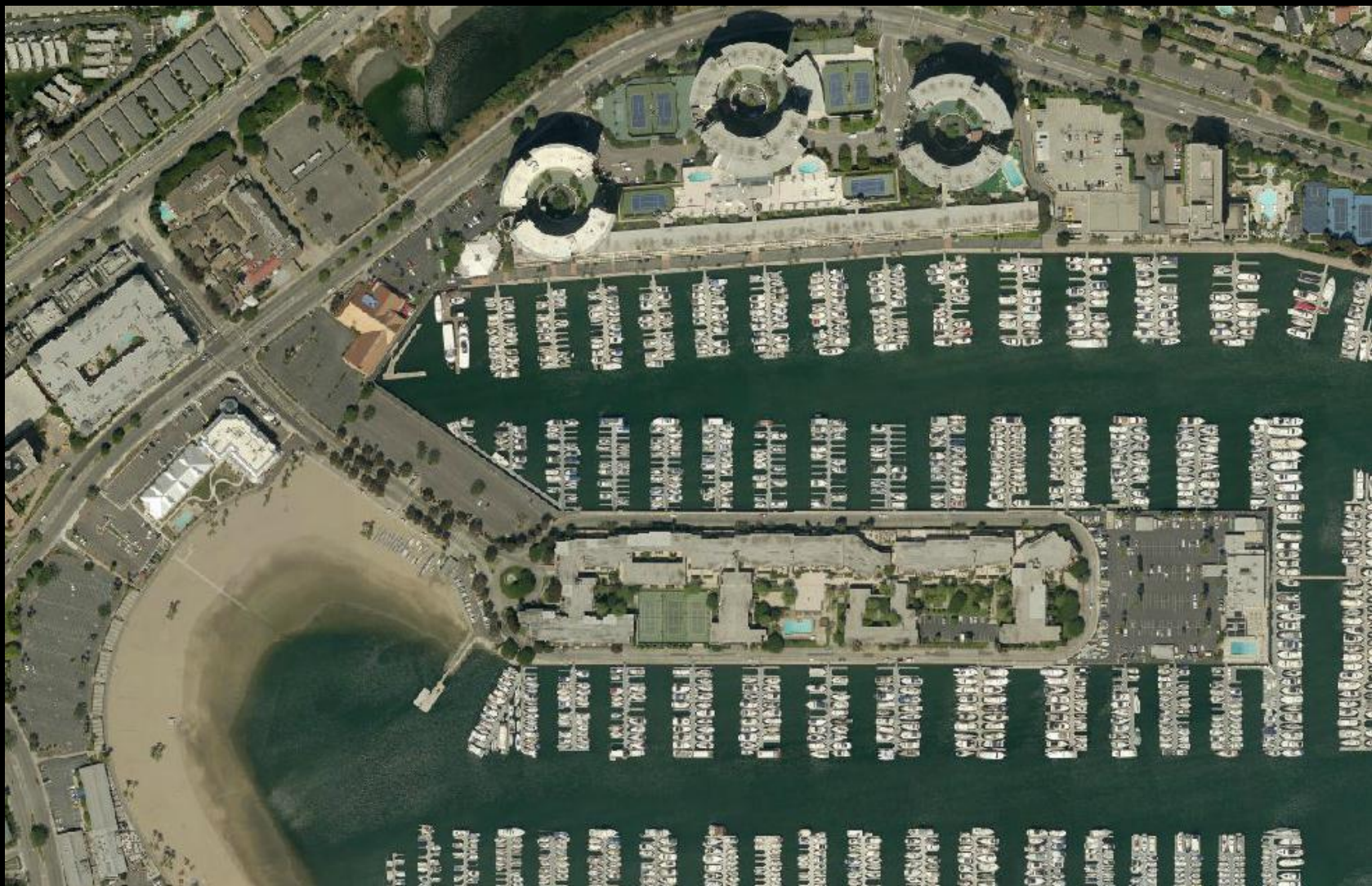
PREPARED BY GIP & B. SECTION, MAY 2012



Feet
0 50 100 150 200 250

LOS ANGELES COUNTY
Department of Regional Planning
400 W. Temple St.
Los Angeles, CA 90012

Raw Imagery (ortho)

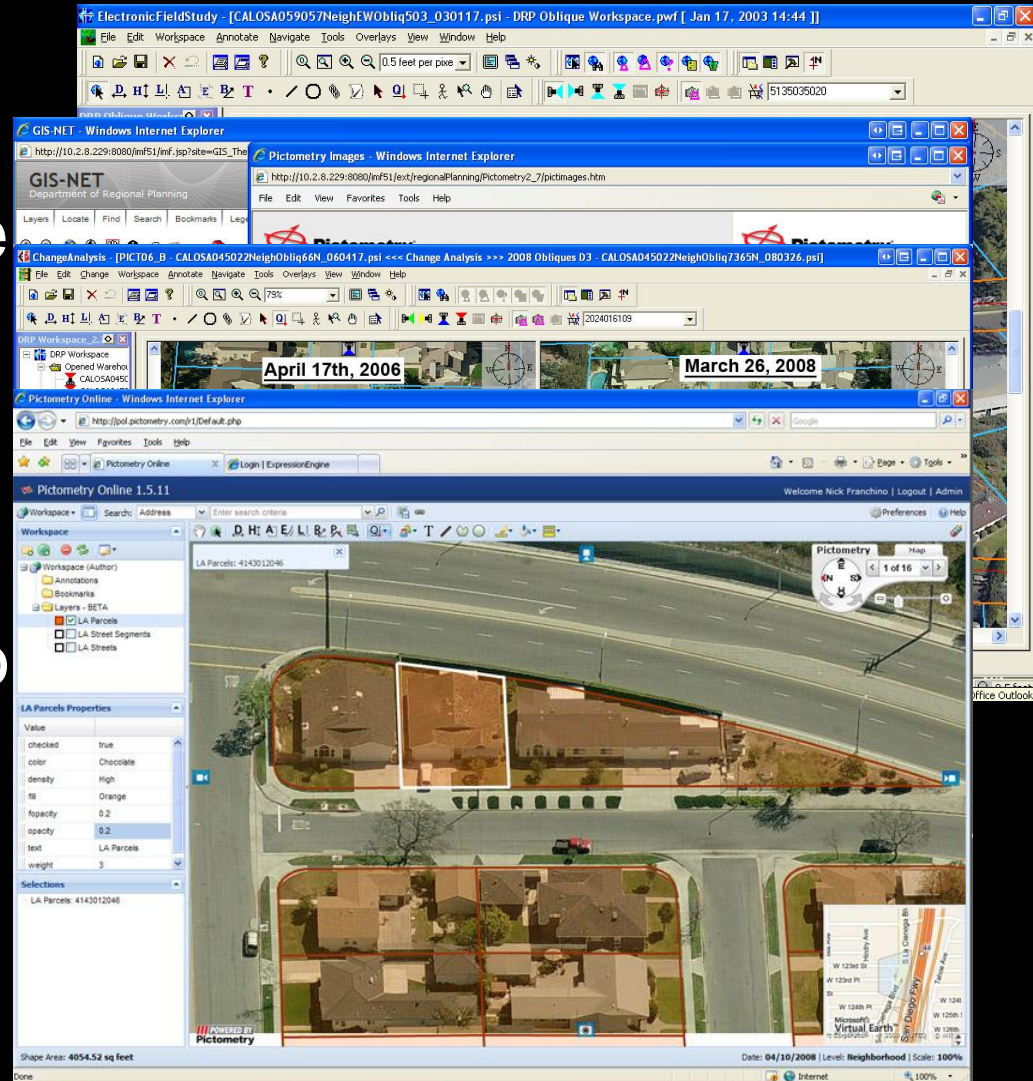


Raw Imagery (oblique)



Oblique Imagery Viewers

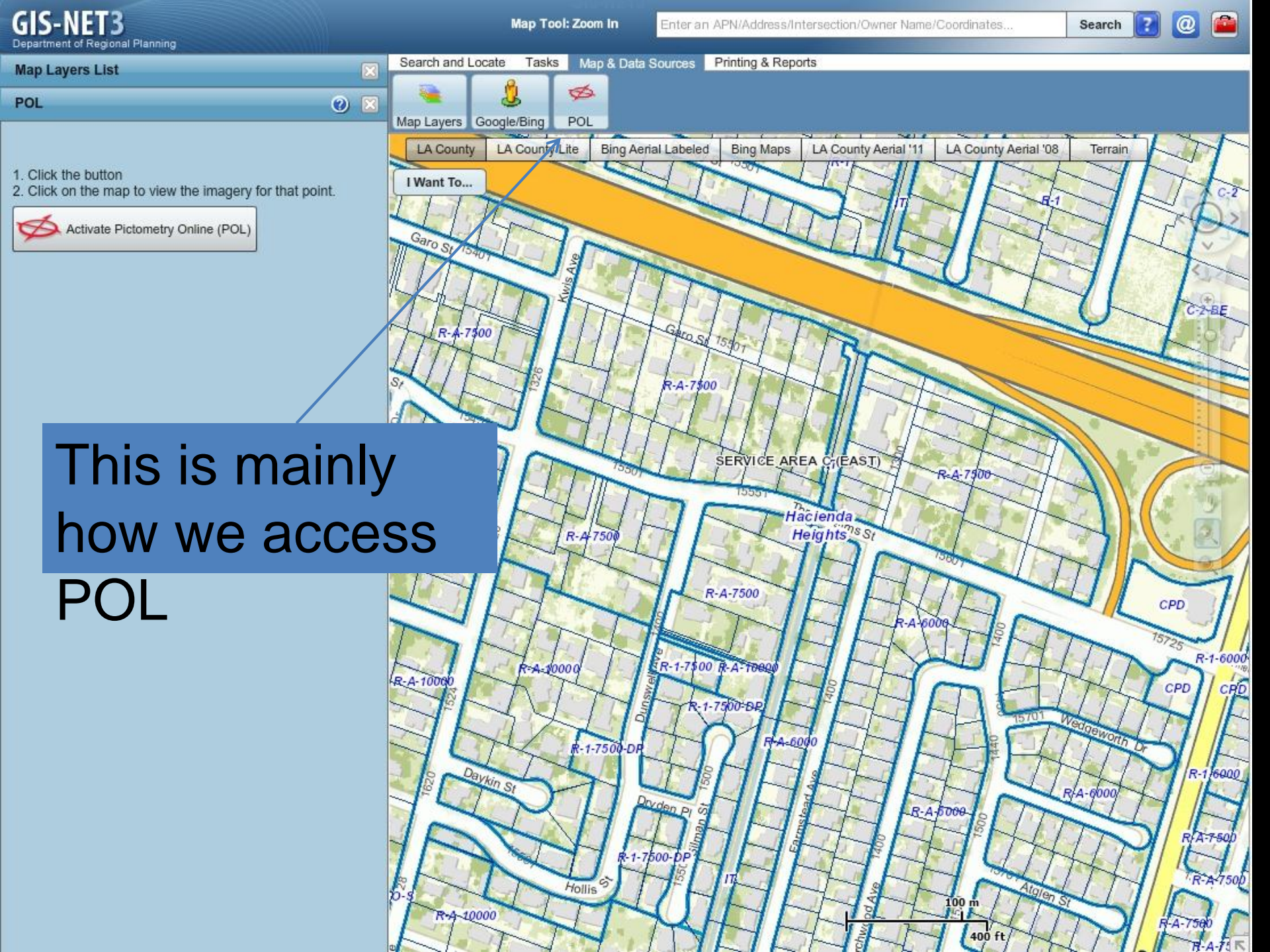
- Drape GIS Layers
- Show Ortho/Oblique Simultaneously
- Compare Imagery from Different Years
- Interact Via the Web



Pictometry Online

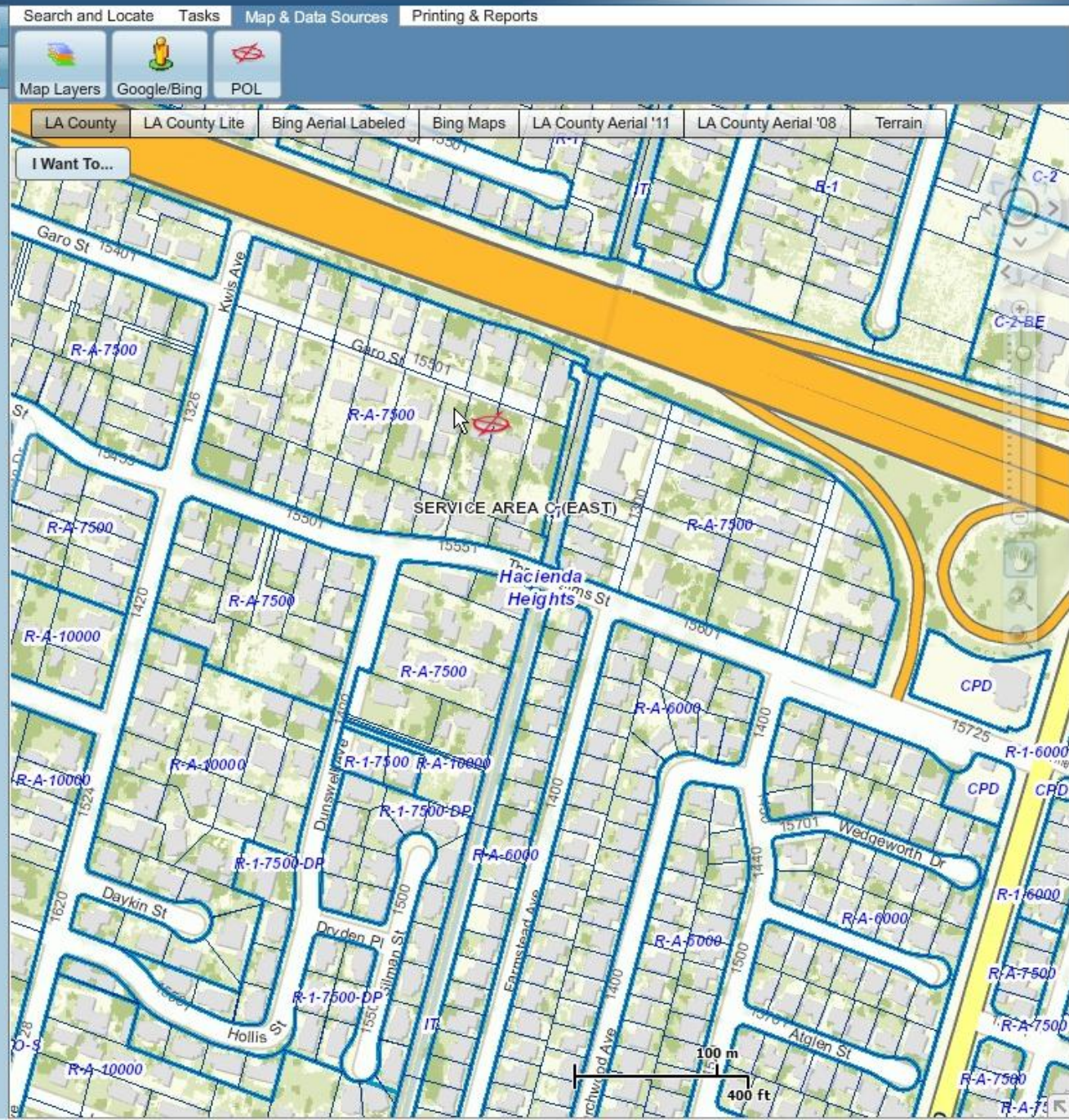
- Can't say enough about it
- Used every single day
- We have named users and generic users (that access through our mapping applications)
- 4 sets of oblique imagery available with our GIS layers

2002-03, 2006, 2008 and 2011



1. Click the button
2. Click on the map to view the imagery for that point.

This is mainly
how we access
POL



GIS-NET3

Department of Regional Planning

Map Layers List

Google/Bing

POL

1. Click the button
2. Click on the map to view the imagery for

 Activate Pictometry Online (POL)

Map Tool: Pan

Enter an APN/Address/Intersection/Owner Name/Coordinates...

Search



Search and Locate

Tasks

Map & Data Sources

Printing & Reports



Map Layers

Google/Bing

POL

Pictometry Online - Windows Internet Explorer

http://pol.pictometry.com/en-us/app/default.php?lat=33.974640&lon=-118.234501&

Favorites

GIS-NET3 Public

GIS-NET3

GIS Section Blog

GIS-NET (Theme Edition)

LA County GIS Viewer

PAIS - Silverlight

Pictometry Online

Page Safety Tools

Pictometry Online 1.10.1

Welcome Lariac Guest | Coverage | Logout

Source: Address

Enter search criteria

Workspace

Layers

- ☐ Address Points
- ☐ Building Outlines (2008)
- ☐ CSD Subarea
- ☐ City Boundaries
- ☐ Community Standards D
- ☐ Environmentally Sensitive
- ☐ Land Types
- ☐ Land Use Policy
- ☒ Parcels (Cached)
- ☐ Parcels (Streamed)
- ☐ Points of Interest
- ☐ SUBDIVISION_LINK_TES

Selections

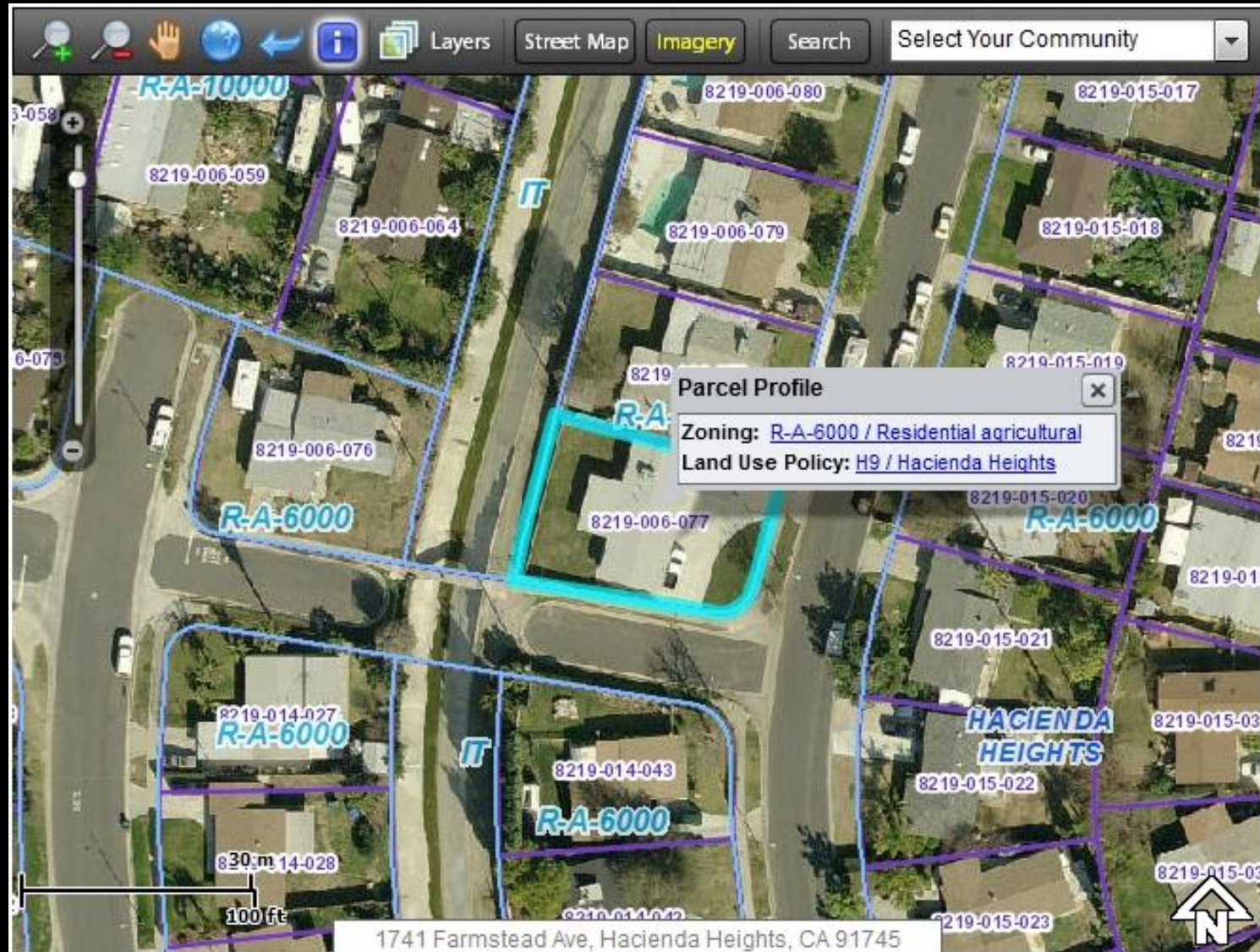


Date: 03/08/2011 | Level: Neighborhood | Scale: 100%

Internet | Protected Mode: On

100%

Imagery Integrated into Everything



Our GIS Web Mapping Applications

GIS-NET3
Department of Regional Planning

Map Tool: Pan Enter an APN/Address/Intersection/Owner Name/Coordinates... Search ? @

Map Layers List

- Google/Bing
- POL
- Select Parcels by Location

Search and Locate Tasks Map & Data Sources Printing & Reports

Identify Query Location Select/Search

Named Extents/Bookmarks

Mayflower Village

LA County LA County Lite Bing Aerial Labeled Bing Maps LA County Aerial '11 LA County Aerial '08 Terrain

I Want To...

Select Results Buffer Selection

Details for: 8511-005-001

APN: 8511-005-001
Owner: [REDACTED]
Second Owner:
Special Name:
Situs Address: 2702 S 10TH AVE
Situs City: ARCADIA CA
Situs ZIP: 91006-5066
Mailing Address: 2702 S 10TH AVE
Mailing City: ARCADIA CA
Mailing ZIP: 910065066
Design Type Bldg 1: 0133
Year Built Bldg 1: 1951
Effective Year Bldg 1: 1951
Units Bldg 1: 1
Bedrooms Bldg 1: 4
Bathrooms Bldg 1: 2
SQFT Bldg 1: 1944
SQFT Bldg 2:
SQFT Bldg 3:
SQFT Bldg 4:
SQFT Bldg 5:
Recording Date: 19980714
Recording Doc No: 1189303
Roll Year: 2012
Current Land Value: 312775
Improvement Value: 90360
Parcel Create Date: 0
SQFT: 16674
Acres: 0.4
TRA Number: 06264
Use Type: Residential
Use Description:
Use Code: 0101

South Monrovia Islands

SERVICE AREA C (EAST)

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Our Front Counter - Yesterday



GIS-NET3

Department of Regional Planning

Map Tool: Pan

Enter your APN/Address/Intersection/Owner Name...

Search



Map Layers List

Layer Name

Visible

- [-] Operational Layers
 - [+] Administrative Layers and Districts
 - [-] Environmental Resources
 - [Significant Ecological Area \(SEA\)](#) ☐
 - [Proposed SEAs - DRAFT](#) ☒
 - [Sensitive Environmental Resources \(SER\) - Coast Zone Only](#) ☐
 - [Wildlife Linkage Designs \(Corridors\)](#) ☐
 - [Braunton's Milk - Vetch Habitat](#) ☐
 - [FEMA Flood Zone](#) ☐
 - [Watershed](#) ☐
 - [CA Natural Diversity Database \(CNDDB\) - Multiple](#) ☐
 - [CA Natural Diversity Database \(CNDDB\)](#) ☐
 - [Farmland](#) ☐
 - [+] Grids
 - [+] Land and Building Outlines
 - [+] Land and Water Features
 - [+] Other
 - [+] Public Safety
 - [+] Seismic Hazards
 - [+] Subdivision Activity
 - [+] Topography
 - [+] Transportation
 - [+] Zoning and Land Use
 - [+] Zoning Map Data
 - [+] Scanned or Historical Images
- [-] Base Layers
 - LA County ☐ Transparency
 - Bing Maps ☐ Transparency

Filter Layers:

Clear

Parcel/Address/Intersection/Owner Search

Map & Data Sources

Search and Locate

Tasks

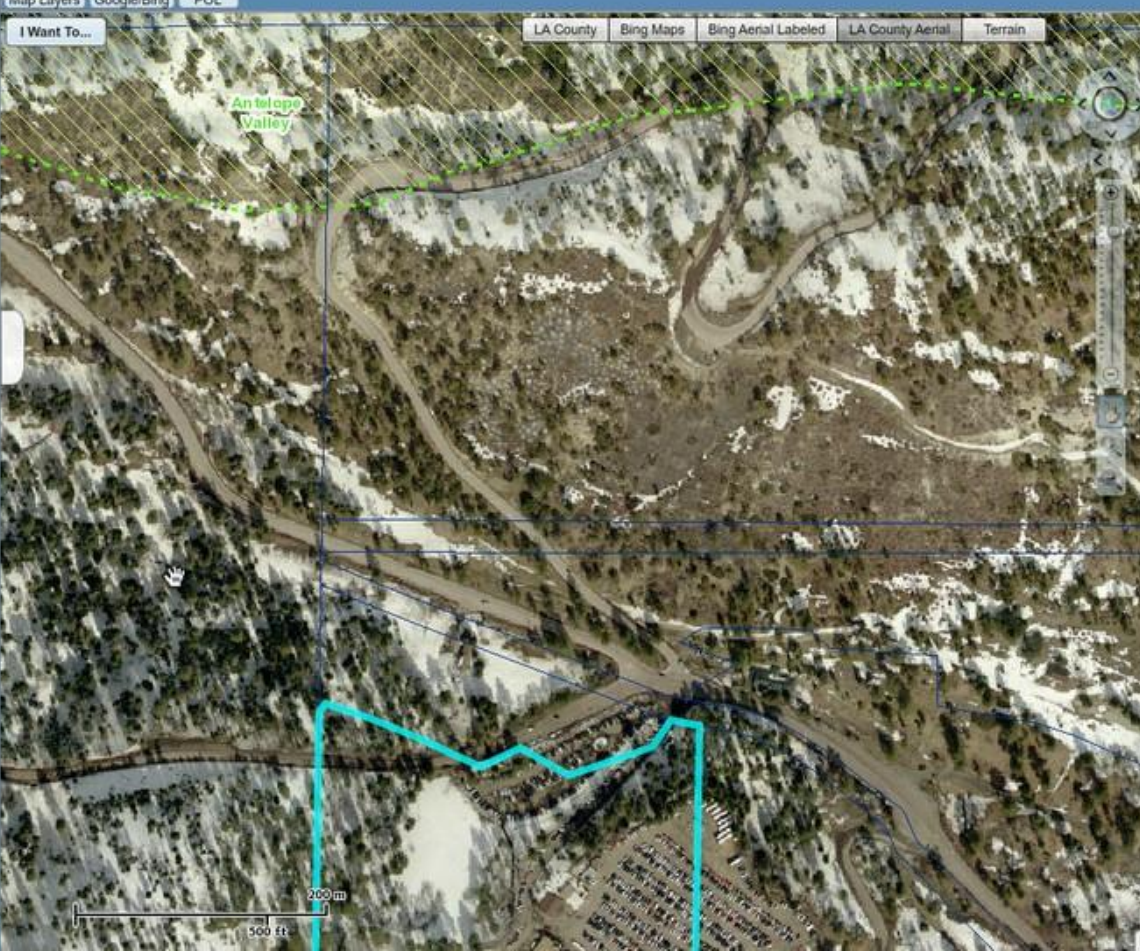
Printing & Reports



Map Layers

Google/Bing

POL



GIS-NET

Department of Regional Planning

Map Tool: Pan

Enter your APN/Address/Intersection/Owner Name...

Search

Layer List

Layer Name	Visible
Zoning (Boundary)	<input type="checkbox"/>
Zoning (Shading)	<input type="checkbox"/>
Countywide Land Use Policy (Not in	<input type="checkbox"/>
Community/Area Plan	<input type="checkbox"/>
Santa Clarita Valley Area Plan -	<input type="checkbox"/>
Santa Clarita Valley Area Plan -	<input type="checkbox"/>
<input checked="" type="checkbox"/> Zoning Map Text	
Case Information (Labels Only)	<input type="checkbox"/>
Case Information	<input type="checkbox"/>
Enforcement Cases (Labels Only)	<input type="checkbox"/>
Enforcement Cases (Status)	<input type="checkbox"/>
House Number (Text)	<input checked="" type="checkbox"/>
Map Text Group	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Base Layers	
LA County	Transparency <input type="checkbox"/>
Bing Maps	Transparency <input type="checkbox"/>
Bing Aerial Labeled	Transparency <input type="checkbox"/>
LA County Aerial	Transparency <input checked="" type="checkbox"/>
Terrain	Transparency <input type="checkbox"/>

Filter Layers: Clear

Street View

Draw and Measure

Location Search

Identify

Parcel/Address/Intersection Search

Map & Data Sources

Search and Locate

Tasks

Printing & Reports



Baldwin Hills

Add

Remove

Go To

Location

Text

Identify

Query

Named Extents/Bookmarks

I Want To...

LA County

Bing Maps

Bing Aerial Labeled

LA County Aerial

Terrain

More...



Subdivision Maps Overlaid

GIS-NET3 BETA
Public
Department of Regional Planning

Map Tool: Pan **Getting Started** Enter an APN or Address with city or zip code Search ? @


Map Layers List

Subdivision Maps

Subdivision Search: Enter parcel or tract number.
Example: PM060022

Search

1. Click the button
2. Click on the map to search for subdivision maps.

 Find Subdivision Maps

Transparency: Compare maps by controlling the transparency of the subdivision map(s)

Click On Image Title To Zoom To Result

▼ TR069671

☒ - RTR069671_10F1_11_27_2007

Clear List

Search and Locate **Tasks**

Map Layers Google/Bing Draw & Measure Subdivision Maps Print to PDF Create Report

LA County Bing Aerial Labeled Bing Maps LA County Aerial '11 LA County Aerial '06

I Want To...


A-2-1

Santa Clarita Valley

148 147 146 145 144 143 142 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163

100 m 500 ft

M-1 A-2-2



Subdivision Maps Overlaid

GIS-NET3
Department of Regional Planning

Map Tool: Pan Enter your APN/Address/Intersection/Owner Name... Search

Map Layers List

Identify

Subdivision Maps

Subdivision Search: Enter parcel or tract number.
Example: PM060022

53525 Search

1. Click the button
2. Click on the map to search for subdivision maps.

Find Subdivision Maps

Transparency: Compare maps by controlling the transparency of the subdivision map(s)

Visibility	Image	
▼ PM071059		
<input checked="" type="checkbox"/>	PM071059_1OF1_8_4_2009	✕
<input type="checkbox"/>	PM071059_1OF1_4_7_2010	✕
<input type="checkbox"/>	PM071059_1OF1_9_9_2010	✕

Clear List

NOTE: Subdivision maps may take 10-15 seconds to load, depending on your connection speed.

Map & Data Sources Search and Locate Tasks Printing & Reports

Identify Query Location Search

Named Extents/Bookmarks

Castaic Add Remove Go To

LA County Bing Maps Bing Aerial Labeled LA County Aerial Terrain

I Want To...

PARCEL 4

EXISTING HOUSE

50 m

100 ft

Measuring

The screenshot displays the GIS-NET3 Public web application interface. The top navigation bar includes the application name, a "Map Tool: Pan" button, a "Getting Started" button, and a search bar. The left sidebar contains a "Map Layers List" and a "Draw and Measure" section. The "Draw and Measure" section has a "Show Measurements" checkbox checked. The main map area shows an aerial view of a residential neighborhood with a blue polygon drawn over a house. The polygon is labeled "Area: 9,895 sq ft". The map also shows various property boundaries and labels, including "Santa Clara Valley" and "District 5".



Map Layers List

Layer Name Visible

- Operational Layers
 - Transportation
 - Arterial Street (Labels) ☐
 - Arterial Street ☐
 - Street Network and Names (Labels) ☒
 - Street Network and Names ☐
 - Private Street Sideline ☐
 - Vacated Street Sideline ☐
 - Zoning Map Data
 - HNH ZCIP (Text) ☐
 - Base Layers
 - LA County ☐
 - LA County Lite ☐
 - Graphics Layers ☒

Transparency ☐
Transparency ☐
Transparency ☐

Filter Layers: street Clear

Parcel/Address/Intersection/Owner Search

Map & Data Sources

Search and Locate

Tasks

Printing & Reports



Enter or choose name...

Add

Remove

Go To

Named Extents/Bookmarks

I Want To...

LA County

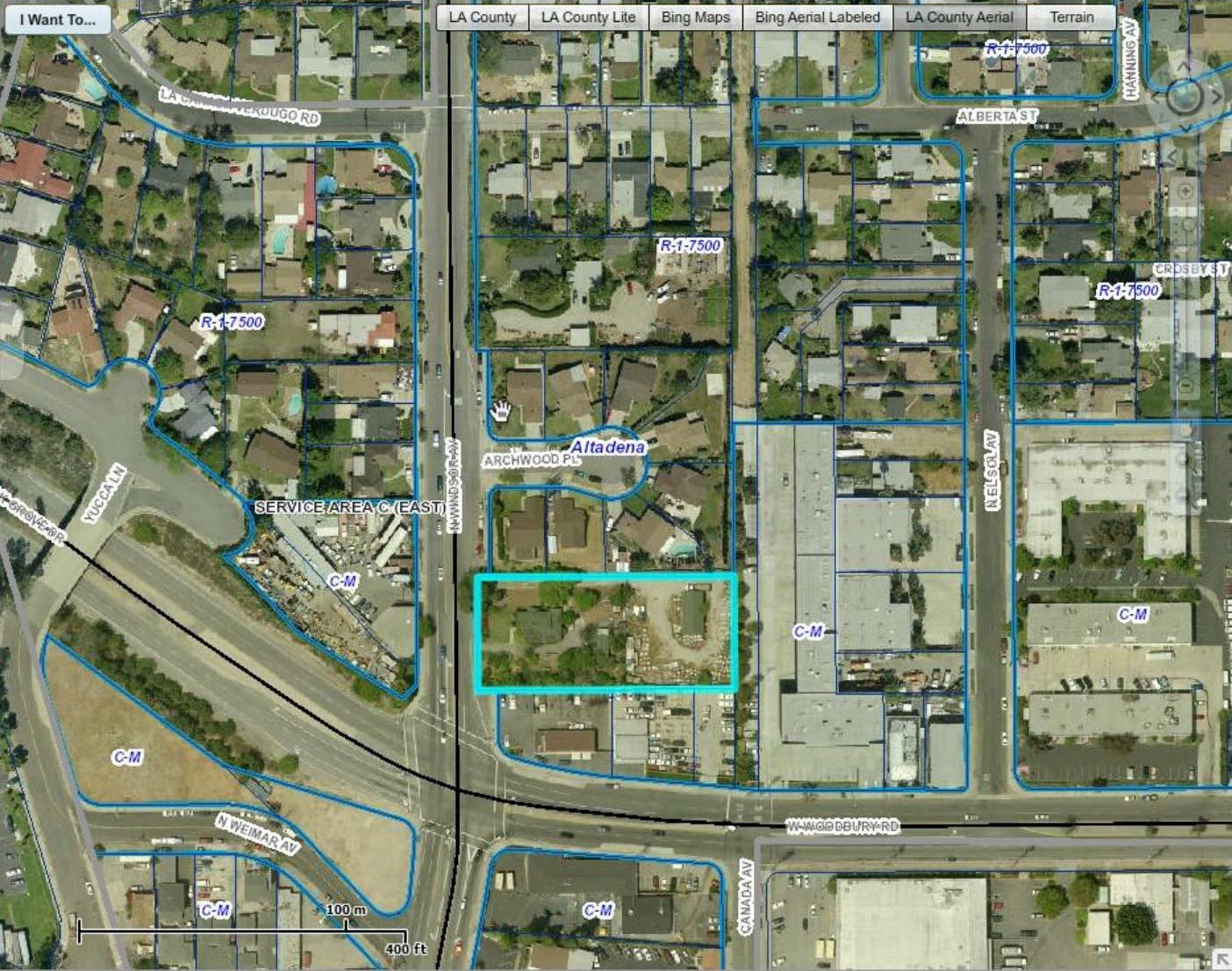
LA County Lite

Bing Maps

Bing Aerial Labeled

LA County Aerial

Terrain



Workspace

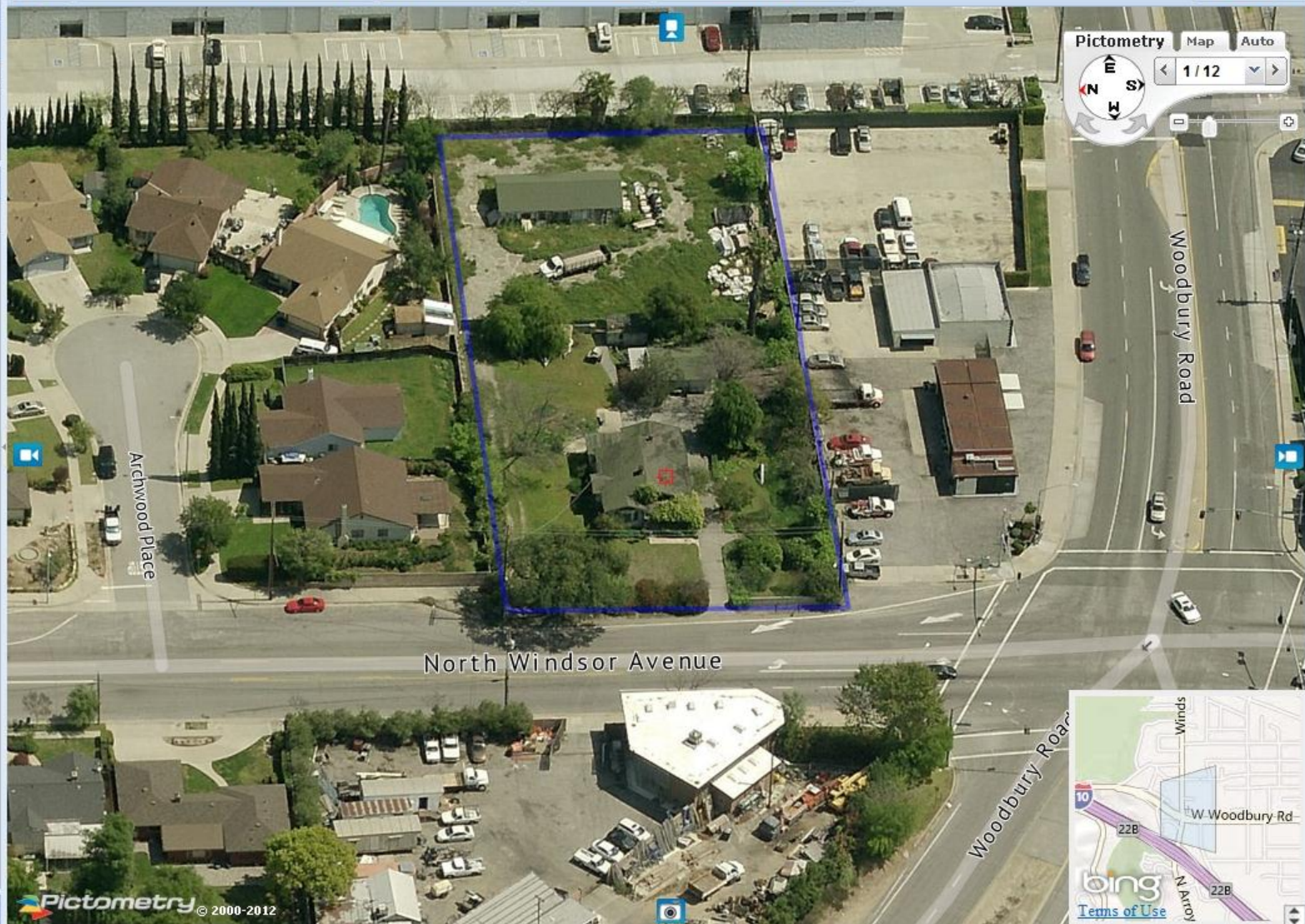
Workspace (Author)

- Annotations
- Bookmarks

Properties

Name	Value
------	-------

Selections



Imagery Can Help Spot Errors in Other Data

GIS-NET3 BETA Public
Department of Regional Planning

Map Tool: Pan **Getting Started** 3086020001 Search ? @

Map Layers List

Search Parcels By APN or Address

Search Results Buffer Selection

Features found: 1 **Clear Results**

3086-020-001 - [View Assessor Data](#)

Address: 32033 207TH ST E
City: LLANO CA
Zip Code: 93544-1564

Search and Locate **Tasks**

Identify Query Location Parcels Select/Search

Enter or choose name... Add Remove Go To

Named Extents/Bookmarks

I Want To...

LA County Bing Aerial Labeled Bing Maps LA County Aerial '08 LA County Aerial '11 Terrain

Antelope Valley

District 5

50m 200 ft

bing

© 2010 NAVTEQ

Imagery Can Help Spot Errors in Other Data

GIS-NET3 BETA Public
Department of Regional Planning

Map Tool: Pan **Getting Started** 3086020001 Search ? @

Map Layers List

Search Parcels By APN or Address

Search Results Buffer Selection

Features found: 1 Clear Results

3086-020-001 - [View Assessor Data](#)

Address: 32033 207TH ST E
City: LLANO CA
Zip Code: 93544-1564

Search and Locate Tasks

Identify Query Location Parcels Select/Search

Enter or choose name... Add Remove Go To

Named Extents/Bookmarks

I Want To...

LA County Bing Aerial Labeled Bing Maps LA County Aerial '08 LA County Aerial '11 Terrain

Antelope Valley

District 5

30m 200 ft

bing

© 2010 NAVTEQ

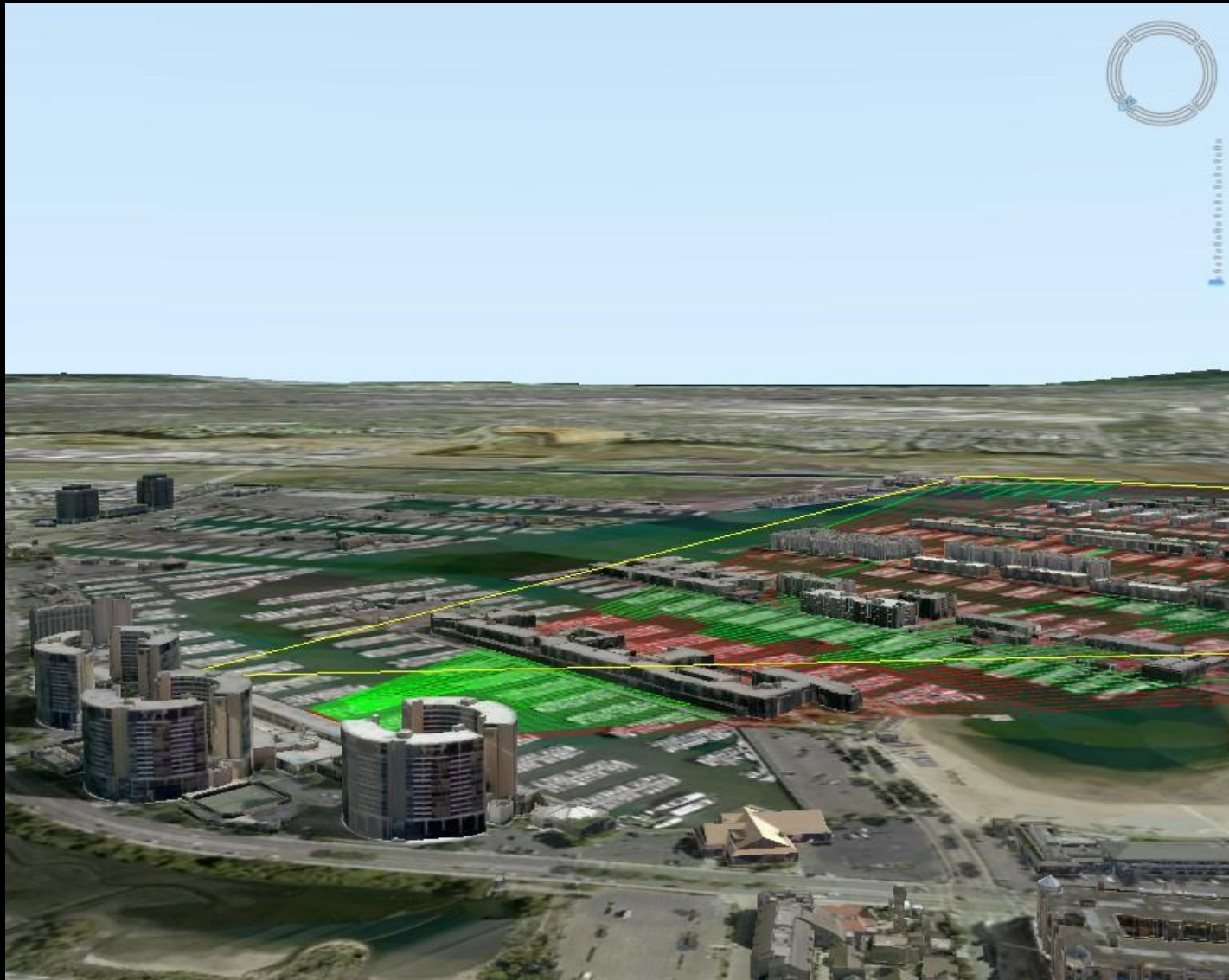
3-D GIS Projects

Marina Del Rey

(optional work)



Line-of-sight



3-D GIS Projects

- Shadow/time series
 - We were able to model building shadows throughout the course of a day



8 AM



Shadow Time Series



Shadow Time Series



12 PM

Shadow Time Series



2 PM

Shadow Time Series

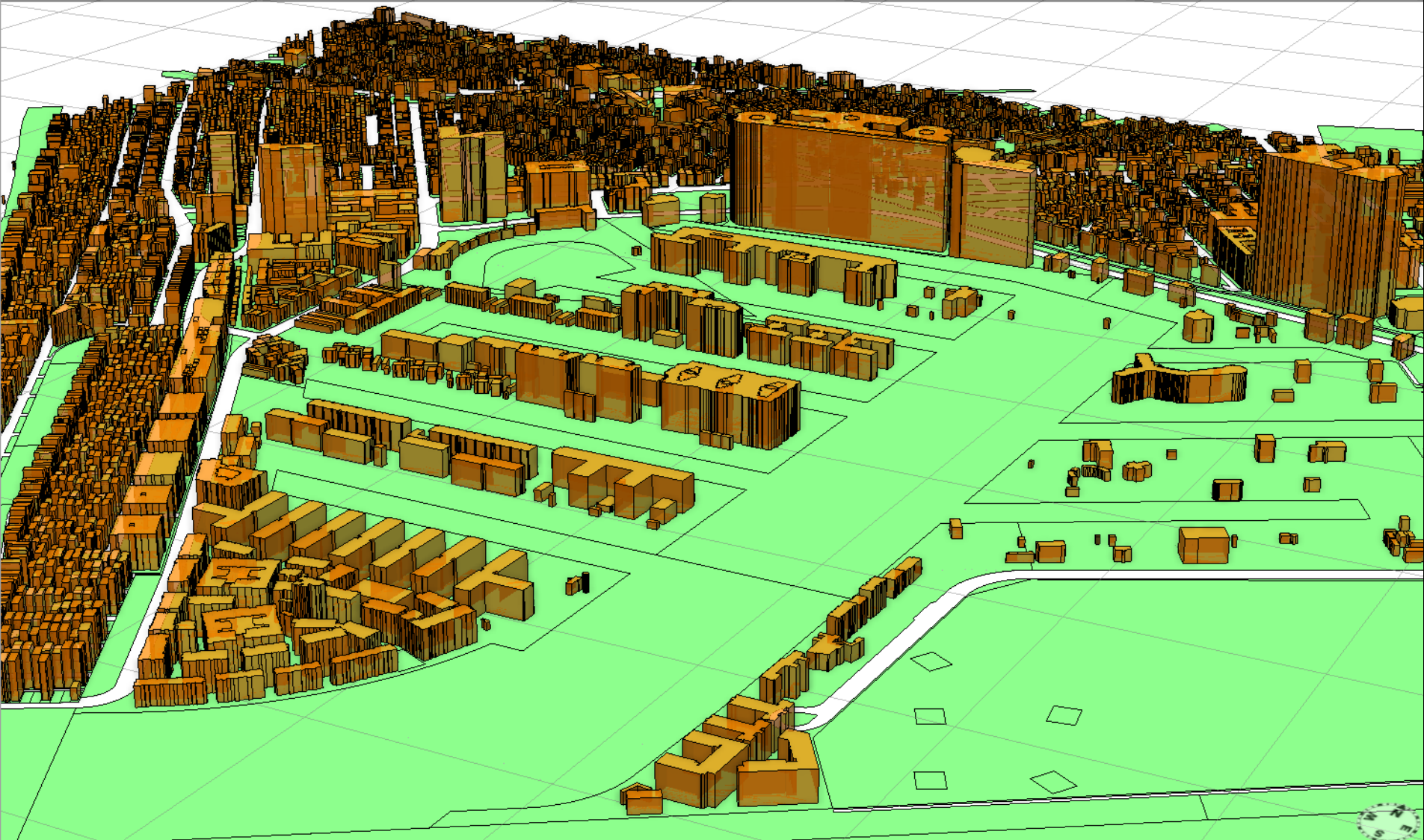


4 PM

Shadow Time Series

Our Buildings in 3D

Perspective View | 59442 Objects | 209687 Polygons



Grid Size 1000ft | NAD 1983 StatePlane California V FIPS 0405 Feet



Newest Esri Web Viewer

Marina del Rey (imagery)

[Help](#) [Sign In](#) [ArcGIS Online](#)



Wrap Up

- Imagery is integrated into everything we do
- Planners want to know what is on the ground
- Support the DA and County Counsel – they seem to like historical imagery
- The public gets access through our viewers – independent appraisers love it!
- We can see it in 2D and we are moving more to 3D

Questions?

<http://planning.lacounty.gov/gis>

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